

PCT
09

RAW SEQUENCE LISTING DATE: 03/28/2001
 PATENT APPLICATION: US/09/787,657 TIME: 17:42:11

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3 <110> APPLICANT: Johns, Margaret Ann
 4 Moldover, Brian Jay
 5 Offord, James David
 7 <120> TITLE OF INVENTION: Alpha-2/Delta Gene
 9 <130> FILE REFERENCE: 5947-01-MJA International PCT
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/787,657
 C--> 12 <141> CURRENT FILING DATE: 2001-03-20
 14 <150> PRIOR APPLICATION NUMBER: 60/103,322
 15 <151> PRIOR FILING DATE: 1998-10-07
 17 <150> PRIOR APPLICATION NUMBER: 60/106,473
 18 <151> PRIOR FILING DATE: 1998-10-30
 20 <150> PRIOR APPLICATION NUMBER: 60/114,088
 21 <151> PRIOR FILING DATE: 1998-12-29
 23 <160> NUMBER OF SEQ ID NOS: 49
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140 35 40 45
142 Pro Leu Leu Pro Leu Leu Ala Pro Gly Ala Ser Ala Tyr Ser Phe
143 50 55 60
145 Pro Gln Gln His Thr Met Gln His Trp Ala Arg Arg Leu Glu Gln Glu
146 65 70 75 80
148 Val Asp Gly Val Met Arg Ile Phe Gly Gly Val Gln Gln Leu Arg Glu
149 85 90 95
151 Ile Tyr Lys Asp Asn Arg Asn Leu Phe Glu Val Gln Glu Asn Glu Pro
152 100 105 110
154 Gln Lys Leu Val Glu Lys Val Ala Gly Asp Ile Glu Ser Leu Leu Asp
155 115 120 125
157 Arg Lys Val Gln Ala Leu Lys Arg Leu Ala Asp Ala Ala Glu Asn Phe
158 130 135 140
160 Gln Lys Ala His Arg Trp Gln Asp Asn Ile Lys Glu Glu Asp Ile Val
161 145 150 155 160
163 Tyr Tyr Asp Ala Lys Ala Asp Ala Glu Leu Asp Asp Pro Glu Ser Glu
164 165 170 175
166 Asp Val Glu Arg Gly Ser Lys Ala Ser Thr Leu Arg Leu Asp Phe Ile
167 180 185 190
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170 195 200 205
172 Gln Ile Pro Thr Asp Ile Tyr Lys Gly Ser Thr Val Ile Leu Asn Glu
173 210 215 220

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182 260 265 270
184 Leu Tyr Asp Val Arg Arg Arg Pro Trp Tyr Ile Gln Gly Ala Ser Ser
185 275 280 285
187 Pro Lys Asp Met Val Ile Ile Val Asp Val Ser Gly Ser Val Ser Gly
188 290 295 300
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191 305 310 315 320
193 Leu Ser Asp Asp Asp Tyr Val Asn Val Ala Ser Phe Asn Glu Lys Ala
194 325 330 335
196 Gln Pro Val Ser Cys Phe Thr His Leu Val Gln Ala Asn Val Arg Asn
197 340 345 350
199 Lys Lys Val Phe Lys Glu Ala Val Gln Gly Met Val Ala Lys Gly Thr
200 355 360 365
202 Thr Gly Tyr Lys Ala Gly Phe Glu Tyr Ala Phe Asp Gln Leu Gln Asn
203 370 375 380
205 Ser Asn Ile Thr Arg Ala Asn Cys Asn Lys Met Ile Met Met Phe Thr
206 385 390 395 400
208 Asp Gly Gly Glu Asp Arg Val Gln Asp Val Phe Glu Lys Tyr Asn Trp
209 405 410 415
211 Pro Asn Arg Thr Val Arg Val Phe Thr Phe Ser Val Gly Gln His Asn
212 420 425 430
214 Tyr Asp Val Thr Pro Leu Gln Trp Met Ala Cys Ala Asn Lys Gly Tyr
215 435 440 445
217 Tyr Phe Glu Ile Pro Ser Ile Gly Ala Ile Arg Ile Asn Thr Gln Glu
218 450 455 460
220 Tyr Leu Asp Val Leu Gly Arg Pro Met Val Leu Ala Gly Lys Glu Ala
221 465 470 475 480
223 Lys Gln Val Gln Trp Thr Asn Val Tyr Glu Asp Ala Leu Gly Leu Gly
224 485 490 495
226 Leu Val Val Thr Gly Thr Leu Pro Val Phe Asn Leu Thr Gln Asp Gly
227 500 505 510
229 Pro Gly Glu Lys Lys Asn Gln Leu Ile Leu Gly Val Met Gly Ile Asp
230 515 520 525
232 Val Ala Leu Asn Asp Ile Lys Arg Leu Thr Pro Asn Tyr Thr Leu Gly
233 530 535 540
235 Ala Asn Gly Tyr Val Phe Ala Ile Asp Leu Asn Gly Tyr Val Leu Leu
236 545 550 555 560
238 His Pro Asn Leu Lys Pro Gln Thr Thr Asn Phe Arg Glu Pro Val Thr
239 565 570 575
241 Leu Asp Phe Leu Asp Ala Glu Leu Glu Asp Glu Asn Lys Glu Glu Ile
242 580 585 590
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245 595 600 605
247 Leu Val Lys Ser Leu Asp Glu Arg Tyr Ile Asp Glu Val Thr Arg Asn

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254	645	650	655
256 Ile Leu Gln Val Lys Tyr Phe Glu Phe Leu Leu Pro Ser Ser Phe Glu			
257	660	665	670
259 Ser Glu Gly His Val Phe Ile Ala Pro Arg Glu Tyr Cys Lys Asp Leu			
260	675	680	685
262 Asn Ala Ser Asp Asn Asn Thr Glu Phe Leu Lys Asn Phe Ile Glu Leu			
263	690	695	700
265 Met Glu Lys Val Thr Pro Asp Ser Lys Gln Cys Asn Asn Phe Leu Leu			
266 705	710	715	720
268 His Asn Leu Ile Leu Asp Thr Gly Ile Thr Gln Gln Leu Val Glu Arg			
269	725	730	735
271 Val Trp Arg Asp Gln Asp Leu Asn Thr Tyr Ser Leu Leu Ala Val Phe			
272	740	745	750
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287	820	825	830
289 Ala Val Val Gly Val Lys Leu Asp Leu Glu Ala Trp Ala Glu Lys Phe			
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VERIFICATION SUMMARY

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
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